

# Ayesha Saeed

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## PROFILE

Master of Science in Applied Biostatistics candidate with experience in statistical programming using R, Python, and SAS. Proven ability to manage, analyze, and interpret complex public health and biomedical datasets, with project experience in regression modeling and data manipulation. Familiar with clinical trial concepts through coursework/projects, and eager to learn industry standards and programming deliverables.

## EDUCATION

### **Boston University School of Public Health**

Master of Science, Applied Biostatistics, Cumulative GPA: 3.87

Anticipated, August 2026

### **Emory University**

Bachelor of Science, Data and Decision Sciences

May 2024

## TECHNICAL SKILLS

### **Statistical Programming & Querying:**

- **R:** dplyr, ggplot2, survival, glmnet, pROC, table1, shiny

- **Python:** pandas, NumPy, scikit-learn, matplotlib

- **SAS:** DATA step (arrays, do loops, if/then); PROC SORT/SQL/FREQ/MEANS/TRANSPOSE; ODS

**Data Analysis & Modeling:** data cleaning/manipulation, visualization, simulation; regression/classification; survival analysis

**Tools & Software:** RStudio, Jupyter Notebook, Git, PLINK, Markdown, Microsoft Excel

## EXPERIENCE

### **Research Administrative Coordinator**

July 2024 - July 2025

Rollins School of Public Health

- Coordinated research operations across multiple public health projects, supporting on-time execution of grant-funded studies while ensuring institutional and regulatory compliance.
- Implemented and maintained project management systems to track milestones, documentation, and team communication, improving workflow organization and project visibility.
- Aggregated project updates into reports used by investigators to guide program decisions.

### **Operations and Special Projects Intern**

May - July 2025

Office of the DeKalb County District Attorney

- Produced ad hoc operational and performance metrics using SQL and Excel, enabling leadership to monitor case processing trends and resource allocation.
- Assessed policy efficacy by analyzing data from the Judicial Information System, performing data integrity checks, verifying outputs against source data, and summarizing reproducible findings in presentations delivered to the District Attorney's Office to inform strategic decision-making.

### **Research Assistant, Ekenga Lab**

January - May 2024

Rollins School of Public Health

- Prepared, cleaned, and analyzed environmental health datasets using Excel, R, and Python for faculty-led research on population-level exposures and outcomes.
- Presented results into concise summary reports for investigators and collaborators, supporting interpretation and dissemination of research findings to statistical and non-statistical audiences.

## SAMPLE CLASS PROJECTS

**Stroke Prediction-using R:** Applied XGBoost, Random Forest, and logistic regression to BRFSS data to predict stroke occurrence; handled data cleaning/missingness and evaluated model performance to identify key risk factors.

**Survival Analysis-using R:** Assessed chronic inflammation predictors of survival using Kaplan-Meier, log-rank, and Cox regression; prepared analysis dataset and reported adjusted hazard ratios with supporting tables/figures in a reproducible workflow.